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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/910,583	07/20/2001	Kevin Mukai	5047	1386
32588 7590 08/02/2007 APPLIED MATERIALS, INC. P. O. BOX 450A SANTA CLARA, CA 95052			EXAMINER	
			TUROCY, DAVID P	
SANTA CLAR	CA, CA 95052		ART UNIT	PAPER NUMBER
			1762	
			MAIL DATE	DELIVERY MODE
			08/02/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	09/910,583	MUKAI ET AL.
Office Action Summary	Examiner	Art Unit
	David Turocy	1762
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 15 Ja 2a) This action is FINAL . 2b) This 3) Since this application is in condition for alloware closed in accordance with the practice under Example 2.	s action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 14-19 and 23 is/are pending in the ap 4a) Of the above claim(s) is/are withdray 5) Claim(s) 18,19 and 23 is/are allowed. 6) Claim(s) 14-17 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examine	wn from consideration. or election requirement. er.	
10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Expression of the second	drawing(s) be held in abeyance. Section is required if the drawing(s) is ob-	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority document 2. ☐ Certified copies of the priority document 3. ☐ Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	

Art Unit: 1762

DETAILED ACTION

Response to Amendment

1. Applicant's amendments, filed 6/15/2007, have been fully considered and reviewed by the examiner. The examiner notes the amendment to claims 14 and 18 and the cancellation of claims 24-32. Claims 14-19 and 23 remain pending in the instant application.

Response to Arguments

2. Applicant's arguments filed 4/26/06 have been fully considered but they are not persuasive.

The applicant has argued against the EP 403 reference, stating the reference discloses stabilizing the gas mixture ratio before introducing the gas and therefore fails to disclose stabilizing individual flows. The examiner respectfully disagrees. While EP 403 may disclose stabilizing the gas mixture ratio, such a disclosure suggests that the gases are individually stabilized. To stabilize the ratio of the gases in a mixture, each of the gases in the mixture must each individually be stable. If one of the gases in a mixture is not stable then the entire mixture will not be stable. Therefore by stabilizing a gas comprising all the components, then each gas is individually stabilized. At the very least, to stabilize the ratio of a mixture, it would have been obvious to one of skilled in the art to stabilize each gas flow individually prior to mixing to achieve the desired result of stabilizing the ratio of the gases. Accordingly, the examiner is maintaining the rejection of claims 14-17 below.

All other arguments are directed to newly added limitations that were not present at the time of the rejection and therefore are address below.

Application/Control Number: 09/910,583 Page 3

Art Unit: 1762

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 14-17 rejected under 35 U.S.C. 103(a) as being unpatentable over KR 2001055915 (KR 915) in view of EP 843348 (EP 348) as applied above, and further in view of EP 1139403 (EP 403).

These claims are rejected for the same reasons as set forth in the office action dated 4/24/2007 and for the reasons set forth in the section 2 above, each incorporated by reference in their entirety.

Allowable Subject Matter

- 5. Claims 18, 19 and 23 are allowed.
- 6. The following is a statement of reasons for the indication of allowable subject matter: None of the prior art cited or reviewed by the examiner reasonably teaches or suggests alone or in combination annealing the BPSG layer to consume a portion of the nitride layer and selecting the delay of phosphorous delay and the weight percent of the phosphorous in the BPSG depending on the desired consumption of the nitride layer.

Art Unit: 1762

Conclusion

7. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Turocy whose telephone number is (571) 272-2940. The examiner can normally be reached on Monday-Friday 8:30-6:00, No 2nd Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Meeks can be reached on (571) 272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1762

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/David Turocy/ Patent Examiner AU 1762

/ TIMOTHY MEEKS
SUPERVISORY PATENT EXAMINER